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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/695,976	10/26/2000	Jin Young Kim	K-229	2954
7:	590 05/31/2002			
FLESHNER & KIM, LLP P.O.Box 221200			EXAMINER	
			PATEL, NITIN	
Chantilly, VA	20153-1200			
			ART UNIT	PAPER NUMBER
			2673	
			DATE MAILED: 05/31/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	(/)			
		09/695,976	KIM ET AL.				
	Office Action Summary	Examiner	Art Unit				
•		Nitin Patel	2673	i			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)⊠	Responsive to communication(s) filed on 2	6 October 2000 .					
2a)☐	<u> </u>	This action is non-final.					
3)							
Disposit	ion of Claims						
4) 🖂	Claim(s) 1-14 is/are pending in the application	ion.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1,2,4,5,7-10 and 12-14</u> is/are rejected.						
7) 🖂	☑ Claim(s) <u>3,6 and 11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
9)[	The specification is objected to by the Exami	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority docume						
	2. Certified copies of the priority docume						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) 🔲 .	Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C	c. § 119(e) (to a provisiona	al application).			
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152) 6) Other:							
J.S. Patent and	Trademark Office						

Art Unit: 2673

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims1, 2, 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Kanazawa et al., (U.S. Patent No. 6,140,984).

As per claims 1,7 Kanazawa shows a plasma display panel (in abstract):

A plurality of sustain electrodes and common electrodes formed between one by one with sustain electrodes and a dielectric layer formed on the substrate to deposit the sustain and common electrodes (In col.2 lines 53-67 and In Col.1 lines 18-40).

As per claim 2, Kanazawa shows common electrodes are commonly connected to a common node (In fig.5).

Art Unit: 2673

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4,5,8-10,12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa et al., (U.S. Patent No. 6,140,984).

As per claims 4,5 Kanazawa does not show a common electrodes are formed of AG and thickness between 10 to 30 micromilimeters. It would have been obvious to one of ordinary skill in the art, at the time of the invention was made to have common electrodes on a MgO material as taught by Kanazawa (In Col.2 lines 65) and having a gap of 100 micromilimeters shown by Kanazawa to implement, so it would have improved electrode disposition is improved.

As per claims 8-10,12-14 Kanazawa does not teach common pulse is lower than a discharge start voltage of the plasma display panel and difference is 270V or below and on period is 1 microsecond or below. It would have been obvious to one of ordinary skill in the art, at the time of the invention was made to allow the teaching of potential different (in Col.6 and 7) to ensure space charge from the cell to stabilized discharge in a display to obtain 270 volts or greater.

Art Unit: 2673

# Allowable Subject Matter

5. Claims 3,6,11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reason for the indication of allowable subject matter:

The prior art fails t teach or suggest common electrodes are formed of a three layered structure of Cr, Cu, and Cr sequentially deposited on the substrate as claimed in claim 3.

The prior art fails to teach or suggest black matrixes formed between the substrate and the common electrodes as claimed in claim 6.

The prior art fails to teach or suggest a maximum potential difference between the scan pulse and the address pulse is more than the discharge start voltage of the plasma display panel as claimed in claim 11.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Patel whose telephone number is 703-308-7024. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H Shalwala can be reached on 703-305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-308-9052 for After Final communications.

Art Unit: 2673

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9618.

NP

May 30, 2002

VIJAY SHANKAR PRIMARY EXAMINER